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NOTICE OF ALLOWANCE AND FEE(S) DUE

826

7590

02/16/2005

ALSTON & BIRD LLP BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE, NC 28280-4000 EXAMINER KAUSHAL, SUMESH

ART UNIT

PAPER NUMBER

1636

DATE MAILED: 02/16/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/464,039	12/15/1999	Rachel Meyers	5800-49	7067

TITLE OF INVENTION: 21612, 21615, 21620, 21676, 33756, NOVEL HUMAN ALCOHOL DEHYDROGENASES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$1400	05/16/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notifications	S.					
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must		
826 7590 02/16/2005				have its own certificat	e of mailing or transmission.	_
ALSTON & BIRD LLP BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE, NC 28280-4000			Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.			
CHARLOTTE, NC	28280-4000					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRST NAMED INVEN		ITOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/464,039	12/15/1999		Rachel Meyers		5800-49	7067
TITLE OF INVENTION: 21	612, 21615, 21620, 21676, 3	3756, NOVEL HU	IMAN ALCOHOL I	DEHYDROGENASES		
APPLN. TYPE	SMALL ENTITY	ISSUE FE	E P	UBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400		\$0	\$1400	05/16/2005
EXAM	INER	ART UNI	T C	LASS-SUBCLASS		
KAUSHAL, SUMESH		1636		435-069100		
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3 listed, no name will be printed.			
PLEASE NOTE: Unless recordation as set forth in (A) NAME OF ASSIGN	an assignee is identified be 37 CFR 3.11. Completion	elow, no assignee of this form is NOT	data will appear on a substitute for filit RESIDENCE: (CI	the patent. If an assign an assignment. TY and STATE OR CO	gnee is identified below, the opening of the openin	
4a. The following fee(s) are			. Payment of Fee(s)			
☐ Issue Fee			A check in the amount of the fee(s) is enclosed.			
Tubleation fee (No small citaly discount permitted)			Payment by credit card. Form PTO-2038 is attached.			
Advance Order - # of Copies The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
a Applicant claims S	(from status indicated above MALL ENTITY status. See	37 CFR 1.27.			ALL ENTITY status. See 37 (
The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the rec	is requested to apply the Iss Publication Fee (if required) vords of the United States Pat	ue Fee and Publicat will not be accepted ent and Trademark	tion Fee (if any) or t d from anyone other Office.	o re-apply any previou than the applicant; a re	usly paid issue fee to the applie egistered attorney or agent; or	cation identified above. the assignee or other party in
Authorized Signature Date						
Typed or printed name						
This collection of informati an application. Confidential submitting the completed a this form and/or suggestion Box 1450, Alexandria, Virg Alexandria, Virginia 22313	on is required by 37 CFR 1.3 lity is governed by 35 U.S.C pplication form to the USP1 s for reducing this burden, s ginia 22313-1450. DO NOT -1450.	311. The information 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR O	on is required to obta 1.14. This collection depending upon the e Chief Information COMPLETED FOR	nin or retain a benefit by a is estimated to take I is individual case. Any Officer, U.S. Patent at MS TO THIS ADDRE	y the public which is to file (a 2 minutes to complete, includ comments on the amount of nd Trademark Office, U.S. De SS. SEND TO: Commissione it displays a valid OMB contribution.	nd by the USPTO to process) iting gathering, preparing, and time you require to complete epartment of Commerce, P.O. or for Patents, P.O. Box 1450, and number.

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BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000			ART UNIT	PAPER NUMBER
CHARLOTTE, NC 28280-4000			1636	
			DATE MAILED: 02/16/200	5

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 626 day(s). Any patent to issue from the above-identified application will include an indication of the 626 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

1	Application No.	Applicant(s)
Notice of Allowability	09/464,039	MEYERS, RACHEL
িথ Notice of Allowability	Examiner	Art Unit
	Sumesh Kaushal Ph.D.	1636
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	application. If not included on will be mailed in due course. THIS
2. The allowed claim(s) is/are <u>63-67,77-79 and 87-104</u> .		
3. \boxtimes The drawings filed on <u>15 December 1999</u> are accepted by	the Examiner.	•
4. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deponsion of the	e been received. The been received in Application No. The cuments have been received in this communication to file a replay of this communication to file a replay of this application. The communication to file a replay of this application. The communication to file a replay of this application. The communication to file a replay of this application. The communication to file a replay of this application. The communication to file a replay of this application. The communication to file a replay of this application. The communication to file a replay of this application. The communication to file a replay of this application.	s national stage application from the ly complying with the requirements R'S AMENDMENT or NOTICE OF ration is deficient. D-948) attached Office action of vings in the front (not the back) of 1(d). must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summan Paper No./Mail D 98), 7. ☐ Examiner's Amen	ate dment/Comment nent of Reasons for Allowance
		JEFFREY FREDMAN PRIMARY EXAMINER

Art Unit: 1636

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kathryn Coulter on 11/01/04.

The application has been amended as follows:

IN THE SPECIFICATION

Page 11, "Figure 19" was replaced with -- Figure 19A-19B --.

Page 19 line 6, "See http://www.nvbi.nlm.nih.gov ." was deleted before "In one".

Page 19 line 14, "(available at http://www.gcg.com)," was deleted before "using either".

Page 19 line 18-19, "(available at http://www.gcg.com)," was deleted before "using a".

Page 29 line 18, "See http://www.nvbi.nlm.nih.gov ." was deleted.

Page 63 line 28, "See http://www.nvbi.nlm.nih.gov ." was deleted.

Application/Control Number: 09/464,039

Art Unit: 1636

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The rejection under 35 USC 101 regarding <u>utility</u> issues has been withdrawn in view of Board decision dated 08/31/04.

The rejection under 35 USC 112(1) regarding <u>written description</u> and <u>enablement</u> issues has been withdrawn in view of Board decision dated 08/31/04.

Claims 63-67, 77-79 and 87-104 are free of prior art. The prior art does not teach or suggest isolated nucleic acid sequenes of SEQ ID NO:8 which encodes the amino acid sequenes of SEQ ID NO:7 (21612 dehydrogenase).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumesh Kaushal Ph.D. whose telephone number is 571-272-0769. The examiner can normally be reached on Mon-Fri. from 9AM-5PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yucel Irem Ph.D. can be reached on 571-272-0781.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your

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application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Sumesh Kaushal Examiner GAU 1636

> JEFFREY FREDMAN PRIMARY EXAMINER